

# Lesson 7: Introduction to Outer Joins

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# Audience

- Those who are new to relational DBs and SQL.

# Objective

To learn about outer joins. To practice outer joins and other concepts learned so far.

# Software & Resources Needed

- Database Server with Interface
  - [MS SQL Server with SQL Server Management Studio](#)
- OR
- [MySQL](#) with MySQL Workbench (part of MySQL install)
- OR
- Online ([sqlfiddle.com](#))
- Data
  - [Test data](#) on Github repo.
- [Github repo](#) for information

# Day 7: Outer Joins

# Preparation

Watch the Day 7 videos:

- <https://youtu.be/M4H6TxGX9MQ>
- <https://youtu.be/sbroy5dK03c>
- [https://youtu.be/csKNt\\_9kd3Q](https://youtu.be/csKNt_9kd3Q)

# LEFT and RIGHT OUTER JOINS

Use Left and Right Outer Joins:

- When you are asked to all records from one table, and only matching from another.
- When you are asked to get missing values (where there are no, where there aren't any . . .)

# Examples

- Get all teachers and any classes that they teach.
- Get all dogs who have ever been at the shelter and their owners, if adopted.
- Get the dogs at the shelter who haven't been adopted yet.
- List bowling teams who haven't won a tournament.



# Try It

Using the SalesOrdersExample DB,  
List all products and the dates for any orders.

# Try It

Using the EntertainmentAgencyExample DB,  
List all entertainers and any engagements they have booked

# Try It

Using the EntertainmentAgencyExample DB,

List customers with no bookings.

# Try It

Using the database SchoolSchedulingExample,  
Display subjects with no faculty defined.

# Try It

Using the database `SchoolSchedulingExample`,  
Display all faculty and classes they are scheduled to teach.

# Try It

Using the database BowlingLeagueExample,  
Display matches with no game data.

# Try It

Using the database `BowlingLeagueExample`,  
Display all tournaments and any matches that have been played.

# Try It

Using the RecipesExample Database,  
Display all recipe classes and any matching recipes.



# Try It

Using the SchoolScheduling Database,  
Show me all subject categories and any classes for all subjects.  
(Details: I want Category Descriptions, Subject Names, Classroom IDs, Start Date, Start Time, and Duration of Classes.)